

**CLAIMS:**

1. (Currently amended) A method of promoting new neuron growth in a patient comprising the step of:

administering to a patient in need thereof a therapeutic amount of a nitric oxide donor compound selected from the group consisting essentially of DETANONOate, PAPANONOate, S-nitroso-N-acetylpenicillamine, sodium nitroprusside, sodium nitroglycerine, phosphodiesterase inhibitors and L-arginine to a patient in need of neuron growth promotion post stroke.

Cancel claims 2-5.

6. (Currently amended) A method of augmenting the production of neurons in a patient by administering to a patient in need thereof an effective amount of a nitric oxide donor selected from the group consisting essentially of DETANONOate, PAPANONOate, S-nitroso-N-acetylpenicillamine, sodium nitroprusside, sodium nitroglycerine, phosphodiesterase inhibitors and L-arginine to a site in need of augmentation.

7. (Currently amended) A method of increasing neurological function in a patient via new neuron growth by administering to a patient in need thereof an effective amount of a nitric oxide donor selected from the group consisting essentially

of DETANONOate, PAPANONOate, S-nitroso-N-acetylpenicillamine, sodium nitroprusside, sodium nitroglycerine, phosphodiesterase inhibitors and L-arginine to promote neuron growth to a patient in need of increased neurological function after neurological damage has occurred to produce neuron growth.

8. (Currently amended) A method of increasing cognitive and neurological function in a patient via new neuron growth by administering to a patient in need thereof an effective amount of a nitric oxide donor compound selected from the group consisting essentially of DETANONOate, PAPANONOate, S-nitroso-N-acetylpenicillamine, sodium nitroprusside, sodium nitroglycerine, phosphodiesterase inhibitors and L-arginine to promote neuron growth to a patient in need of increased cognitive and neurological function after neurological and cognitive damage has occurred to produce neuron growth.